

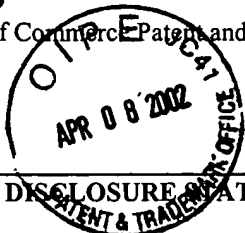
<b>FORM PTO-1449</b> U.S. Department of Commerce Patent and Trademark Office	<b>Docket No. (Optional)</b> INVIT1100-2	<b>Serial No.:</b> 10/035,368
	<b>Applicant(s):</b> James P. Hoeffler et al.	
<b>INFORMATION DISCLOSURE STATEMENT</b> <b>BY APPLICANT</b>	<b>Filing Date:</b> October 26, 2001	<b>Group Art Unit:</b> To be assigned <i>1641</i>

### U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>LVC</i>	AA	4,483,929	11/20/1984	Szoka			
	AB	4,591,570	05/27/1986	Chang			
	AC	4,816,567	03/28/1989	Cabilly et al.			
	AD	5,075,077	12/24/1991	Durley III et al.			
	AE	5,143,854	09/01/1992	Pirrung et al.			
	AF	5,270,167	12/14/1993	Francoeur, Ann-Michelle			
	AG	5,281,540	01/25/1994	Merkh et al.			
	AH	5,424,186	06/13/1995	Fodor et al.			
	AI	5,489,678	02/06/1996	Fodor et al.			
	AJ	5,585,069	12/17/1996	Zanzucchi et al.			
	AK	5,594,111	01/14/1997	Stolowitz			
	AL	5,623,055	04/22/1997	Stolowitz			
	AM	5,648,470	07/15/1997	Stolowitz			
	AN	5,653,939	08/05/1997	Hollis et al.			
	AO	5,744,305	04/28/1998	Fodor et al.			
	AP	5,763,263	06/09/1998	Dehlinger, Peter J..			
	AQ	5,807,522	09/15/1998	Brown et al.			
	AR	5,840,300	11/24/1998	Williams et al.			
	AS	5,843,767	12/01/1998	Beattie, Kenneth L.			
<i>LVC</i>	AT	5,858,804	01/12/1999	Zanzucchi et al.			

<b>EXAMINER</b> <i>Alisa J. Cook</i>	<b>DATE CONSIDERED</b> <i>4/3/03</i>
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<i>L/C</i>	AU	6,100,099	08/08/2000	Gordon et al.			
	AV	6,110,426	08/29/2000	Shalon et al.			
	AW	6,124,102	09/26/2000	Fodor et al.			
<i>L/C</i>	AX	6,197,506 B1	03/06/2001	Fodor et al.			

### FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION (YES/NO)
<i>L/C</i>	AY	0 404 097 A2	06/20/1990	EP			
	AZ	WO 90/05144	05/17/1990	PCT			
	BA	WO 92/01047	01/23/1992	PCT			
	BB	WO 92/20791	11/26/1992	PCT			
	BC	WO 93/11161	06/10/1993	PCT			
	BD	WO 93/19172	09/30/1993	PCT			
	BE	WO 95/35505	12/28/1995	PCT			
<i>L/C</i>	BF	WO 99/20749	04/29/1999	PCT			

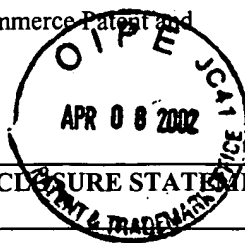
### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

<i>L/C</i>	BG	Adams et al., "Complementary DNA Sequencing: Expressed Sequence Tags and Human Genome Project," <i>Science</i> , Vol. 252, pgs. 1651-1656, June 21, 1991.
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EXAMINER <i>Aisa. X. Cook</i>	DATE CONSIDERED <i>4/3/03</i>
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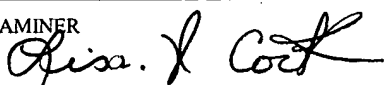
LVC	BH	Ahluwalia et al., "A Comparative Study of Protein Immobilization Techniques for Optical Immunosensors," <i>Biosensors &amp; Bioelectronics</i> , Vol. 7, pgs. 207-214 (1991).
	BI	Allen et al., "Isolation of High-Affinity RNA Ligands to HIV-1 Integrase from a Random Pool," <i>Virology</i> , Vol. 209, pgs. 327-336 (1995).
	BJ	Benoist and Chambon, "In vivo Sequence Requirements of the SV40 Early Promoter Region," <i>Nature</i> , Vol. 290, pgs. 304-310, March 26, 1981
	BK	Bhatia et al., "Use of Thiol-Terminal Silanes and Heterobifunctional Crosslinkers for Immobilization of Antibodies on Silica Surfaces," <i>Analytical Biochemistry</i> , Vol. 178, Pgs. 408-413 (1989).
	BL	Binkley et al., "RNA Ligands to Human Nerve Growth Factor," <i>Nucleic Acids Research</i> , Vol. 23, No. 16, pgs. 3198-3205 (1995).
	BM	Bollon and Stauver, "DNA Transformation Efficiency of Various Bacterial and Yeast Host-Vector Systems," <i>Journal of Clinical Hematology and Oncology</i> , Vol. 10(2), pgs. 39-48 (1980).
	BN	Botstein et al., "Making Mutations <i>In Vitro</i> and Putting Them Back into Yeast," <i>Miami Winter Symposia</i> , Vol. 19, pgs. 265-274 (1982).
	BO	Broach, James R., "The Yeast Plasmid 2μ Circle," <i>Cell</i> , Vol. 28, pgs. 203-204, February 1982.
	BP	Centatiempo, Y., "Prokaryotic Gene Expression <i>in vitro</i> : Transcription – Translation Coupled System," <i>Biochimie</i> , Vol. 68, pgs. 505-515 (1986).
	BQ	Chong et al., "Single-column Purification of Free Recombinant Proteins Using a Self-cleavable Affinity Tag Derived from a Protein Splicing Element," <i>Gene</i> , Vol. 192, pgs. 271-281 (1997).
	BR	Clackson et al., "Making Antibody Fragments Using Phage Display Libraries," <i>Nature</i> , Vol. 352, pgs. 624-628, August 15, 1991.
	BS	Daniels and Lane, "Phage Peptide Libraries," <i>Methods, A Comparison to Methods in Enzymology</i> , Vol. 9, No. 0057, pgs. 494-507 (1996).
LVC	BT	Ekins and Chu, "Multianalyte Microspot Immunoassay. The Microanalytical 'Compact Disk' of the Future," <i>Ann. Biol. Clin.</i> , Vol. 50, pgs. 337-353 (1992).

<b>EXAMINER</b> Lisa L. Cook	<b>DATE CONSIDERED</b> 4/3/03
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LVC	BU	Freij-Larsson et al., "Adsorption Behaviour of Amphiphilic Polymers at Hydrophobic Surfaces: Effects on Protein Adsorption," <i>Biomaterials</i> , Vol. 17, pgs. 2199-2207 (1996).
	BV	Gilman et al., "Isolation of Sigma-28-Specific Promoters from <i>Bacillus subtilis</i> DNA," <i>Gene</i> , Vol. 32, pgs. 11-20 (1984).
	BW	Gold et al., "Translational Initiation in Prokaryotes," <i>Ann. Rev. Microbiol.</i> , Vol. 35, pgs. 365-403 (1981).
	BX	Gottesman, Susan, "Bacterial Regulation: Global Regulatory Networks," <i>Ann. Rev. Genet.</i> , Vol. 18, pgs 415-441 (1984).
	BY	Hamer and Walling, "Regulation <i>In Vivo</i> of a Cloned Mammalian Gene: Cadmium Induces the Transcription of a Mouse Metallothionein Gene in SV40 Vectors," <i>Journal of Molecular and Applied Genetics</i> , Vol. 1, pgs. 273-288 (1982).
	BZ	Holliger et al., "Diabodies: Small Bivalent and Bispecific Antibody Fragments," <i>Proc. Natl. Acad. Sci. USA.</i> , Vol. 90, pgs. 6444-6448, July, 1993.
	CA	Iba and Kurosawa, "Comparison of Strategies for the Construction of Libraries of Artificial Antibodies," <i>Immunology and Cell Biology</i> , Vol. 75, pgs. 217-221 (1997).
	CB	Jasney, Barbara R., "Insect Viruses Invade Biotechnology," <i>Science</i> , Vol. 79, pg. 1653, December 18, 1987.
	CC	John and Twitty, "Plasmids as Epidemiologic Markers in Nosocomial Gram-Negative Bacilli: Experience at a University and Review of the Literature," <i>Reviews of Infectious Diseases</i> , Vol. 8, No. 5, pgs. 693-704 (1986).
	CD	Johnston and Hopper, "Isolation of the Yeast Regulatory Gene GAL4 and Analysis of its Dosage Effects on the Galactose/Melibiose Regulon," <i>Proc. Natl. Acad. Sci., USA</i> , Vol. 79, pgs. 6971-6975, November 1982.
	CE	Jones et al., "Replacing the Complementarity-Determining Regions in a Human Antibody with Those From a Mouse," <i>Nature</i> , Vol. 321, pgs. 522-525, May 29, 1986.
LVC	CF	Jonsson et al., "Immobilization of Immunoglobulins on Silica Surfaces," <i>Biochem. J.</i> , Vol. 227, pgs. 373-378 (1985).

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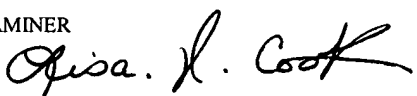
LVC	CG	Kendall and Cohen, "Plasmid Transfer in <i>Streptomyces Lividans</i> : Identification of a kil-kor System Associated with the Transfer Region of pIJ101," <i>Journal of Bacteriology</i> , Vol. 169, No. 9, pgs. 4177-4183, September 1987.
	CH	Kohler and Milstein, "Continuous Cultures of Fused Cells Secreting Antibody of Predefined Specificity," <i>Nature</i> , Vol. 256, pgs. 495-497, August 7, 1975.
	CI	Marks et al., "By-passing Immunization, Human Antibodies from V-Gene Libraries Displayed on Phage," <i>J. Mol. Biol.</i> , Vol. 222, pgs. 581-597 (1991).
	CJ	Marshall and Hodgson, "DNA Chips: An Array of Possibilities," <i>Nature Biotechnology</i> , Vol. 16, pgs. 27-31, January, 1998.
	CK	McKnight, Steven, "Functional Relationships Between Transcriptional Control Signals of the Thymidine Kinase Gene of Herpes Simplex Virus," <i>Cell</i> , Vol. 31, pgs. 355-365, December, 1982.
	CL	Morrison et al., "Chimeric Human Antibody Molecules: Mouse Antigen-binding Domains with Human Constant Region Domains," <i>Proc. Natl. Acad. Sci., USA</i> , Vol. 81, pgs. 6851-6855, November, 1984.
	CM	Okayama and Berg, "A cDNA Cloning Vector That Permits Expression of cDNA Inserts in Mammalian Cells," <i>Molecular and Cellular Biology</i> , Vol. 3, No. 2, pgs. 280-289, February, 1983.
	CN	Pease et al., "Light-generated Oligonucleotide Arrays for Rapid DNA Sequence Analysis," <i>Proc. Natol. Acad. Sci., USA</i> , Vol. 91, pgs. 5022-5026, May, 1994.
	CO	Presta. Leonard G., "Antibody Engineering," <i>Current Opinion in Structural Biology</i> , Vol. 2, pgs. 593-596 (1992).
	CP	Rader and Barbas, III, "Phage Display of Combinatorial Antibody Libraries," <i>Current Opinion in Biotechnology</i> , Vol. 8, pgs. 503-508 (1997).
	CQ	Ramsay, Graham, "DNA Chips: State-of-the-art," <i>Nature Biotechnology</i> ., Vol. 16, pgs. 40-44, January, 1998.
LVC	CR	Riechmann and Weill, "Phage Display and Selection of a Site-Directed Randomized Single-Chain Antibody Fv Fragment for Its Affinity Improvement," <i>Biochemistry</i> , Vol. 32, pgs. 8848-8855 (1993).

EXAMINER <i>Oliver L. Cook</i>	DATE CONSIDERED <b>4/3/03</b>
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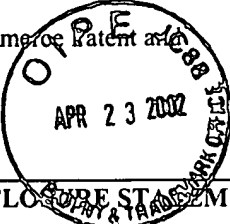
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L/C	CS	Riechmann et al., "Reshaping Human Antibodies for Therapy," <i>Nature</i> , Vol. 332, pgs. 323-327, March, 1988.
	CT	Rubin, Gerald M. " <i>Drosophila Melanogaster</i> as an Experimental Organism," <i>Science</i> , Vol. 240, pgs. 1453-1459, June, 1988.
	CU	Silver et al., "Amino Terminus of the Yeast GAL4 Gene Product is Sufficient for Nuclear Localization," <i>Proc. Natl. Acad. Sci., USA</i> , Vol. 81, pgs. 5951-5955, October, 1984.
	CV	Ulmanen et al., "Transcription and Translation of Foreign Genes in <i>Bacillus Subtilis</i> by the Aid of a Secretion Vector," <i>Journal of Bacteriology</i> , Vol. 162, No. 1, pgs. 176-182 (1985).
	CW	Ward et al., "Construction and Characterization of a Series of Multi-copy Promoter-probe Plasmid Vectors for <i>Streptomyces</i> Using the Aminoglycoside Phosphotransferase Gene from Tn5 as Indicator," <i>Mol. Gen. Genet.</i> , Vol. 203, pgs. 468-478 (1986).
	CX	Zapata et al. "Engineering Linear F(ab') <sub>2</sub> Fragments for Efficient Production in <i>Escherichia coli</i> and Enhanced Antiproliferative Activity," <i>Protein Engineering</i> , Vol. 8, No. 10, pgs. 1057-1062 (1995).
L/C	CY	Ziegler et al., "SHORT COMMUNICATION; Cucumber Mosaic Cucumovirus Antibodies from a Synthetic Phage Display Library," <i>Virology</i> , Vol. 214, pgs. 235-238 (1995).

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* LVC	AA	6,197,599 B1	3/6/2001	Chin and Wang	436	518	7/30/98

### FOREIGN PATENT DOCUMENTS

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### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)


\* possible interference LVC 4/3/03

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